

# Silicon Valley

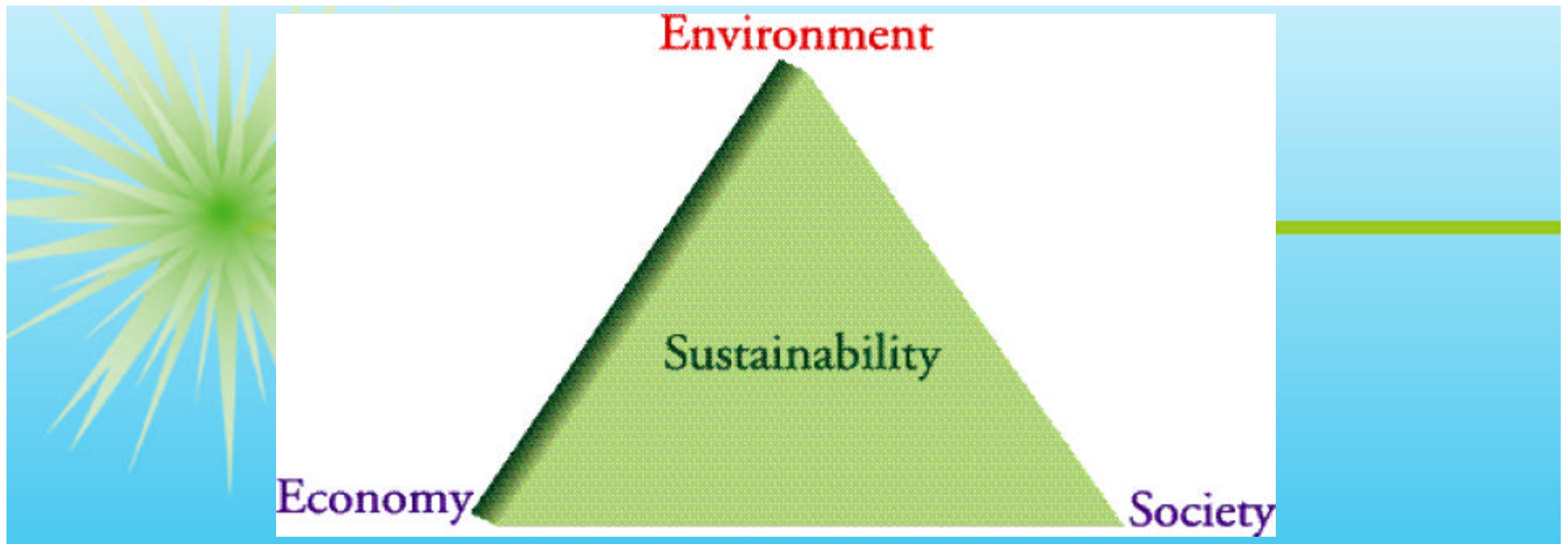
**Taking the Pulse of Silicon Valley's Environment**

1999 Environmental Index



# Silicon Valley

## Environmental Indicators



# Silicon Valley

## Environmental Indicators

### BACKGROUND/PROCESS

#### NEETF Survey

Majority of Americans are  
supportive of environment,  
lack of adequate knowledge.

Indicators

# Silicon Valley

## Environmental Indicators

### PROCESS

Board of Directors: Framework

Advisors: Strategic oversight

- environmental
- scientific
- business
- government
- academia

2-year updates planned

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## Environmental Indicators

### Criteria for Indicators:

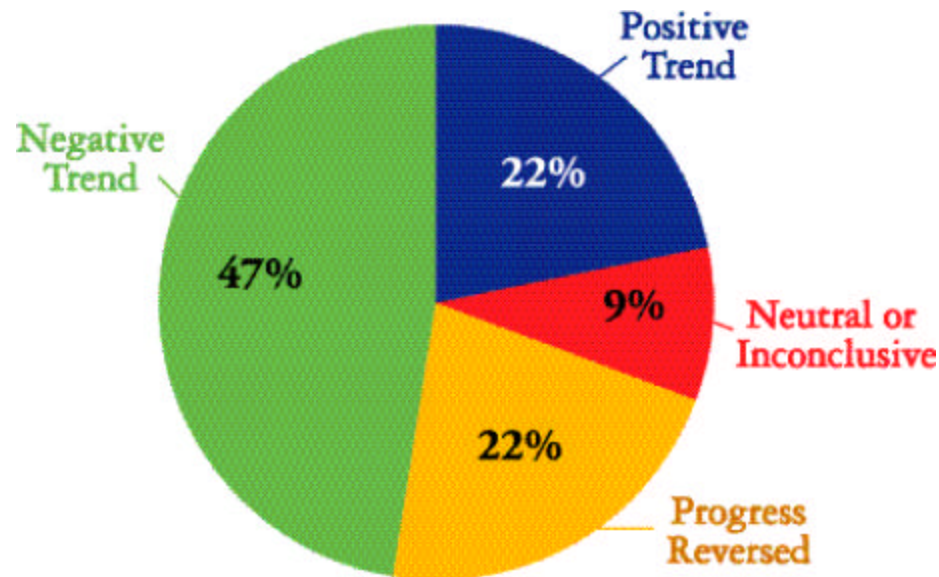
- influence
- ecologically meaningful
- understandable
- practical
- representative
- sensitive
- detect trends
- reflect general agreement



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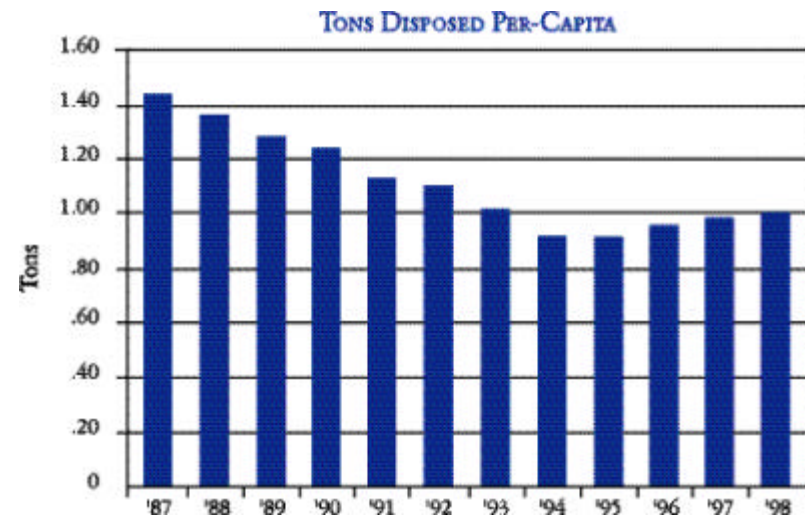
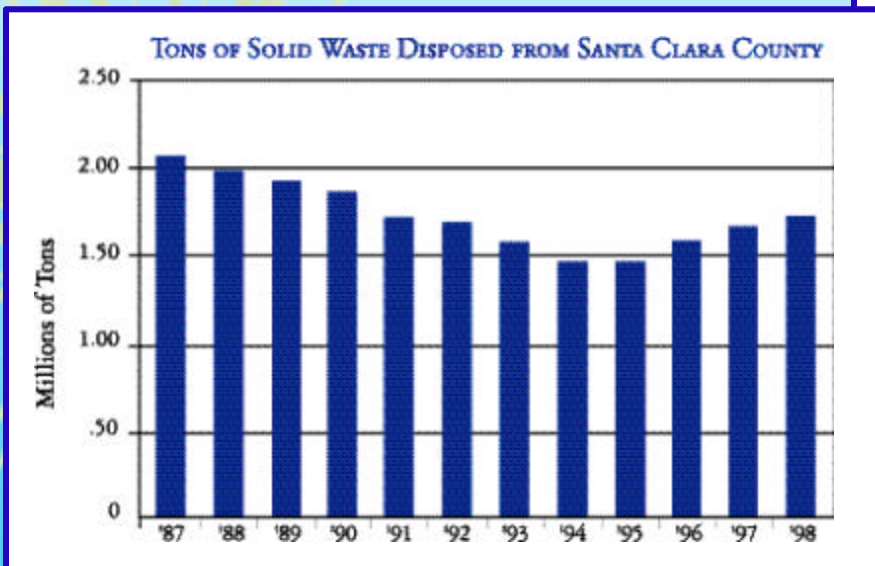
### PROCESS



2/3 show negative trends

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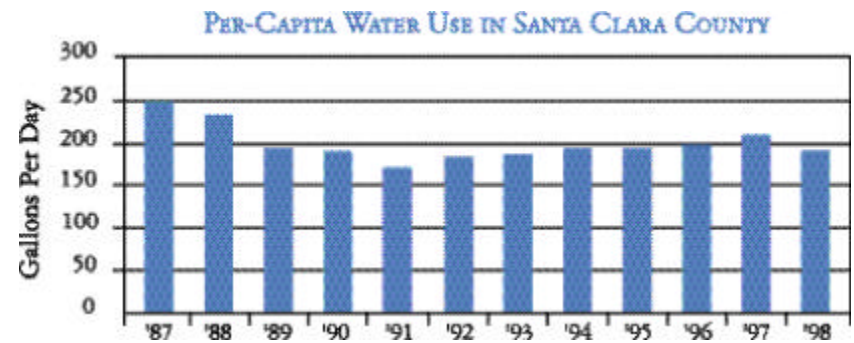
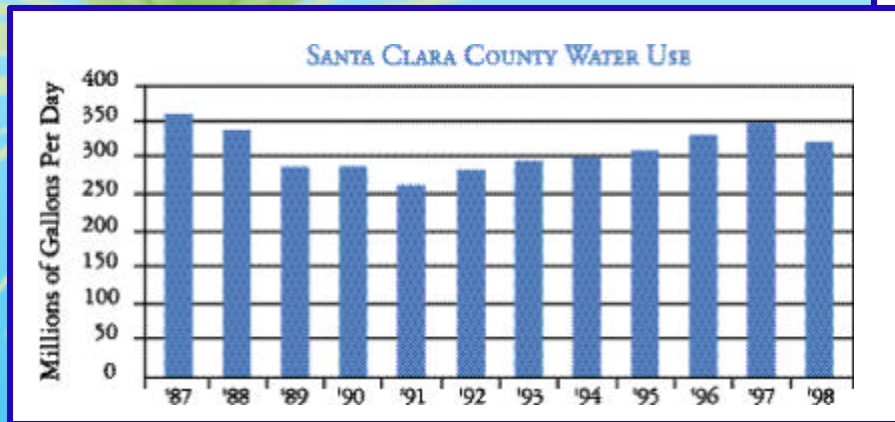
## Environmental Indicators



Data Source: Santa Clara County Integrated Waste Management Program

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## Environmental Indicators

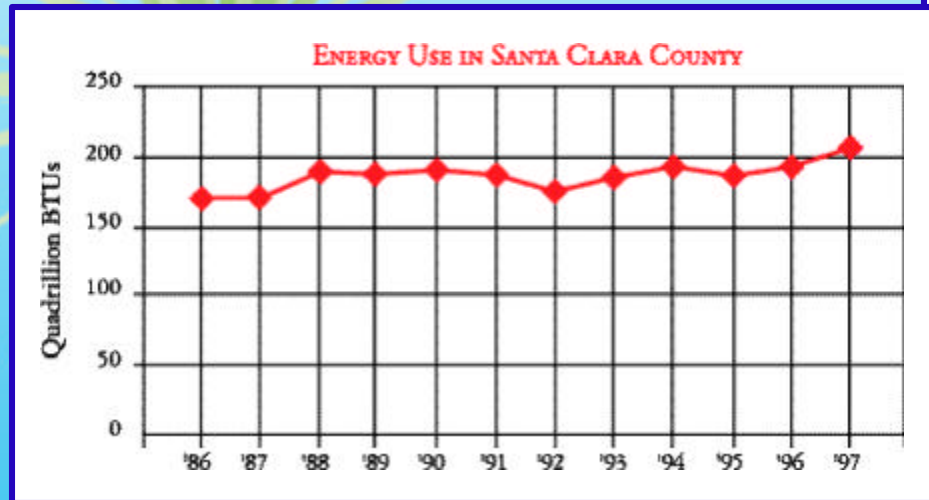


Data Source: Santa Clara Valley Water District

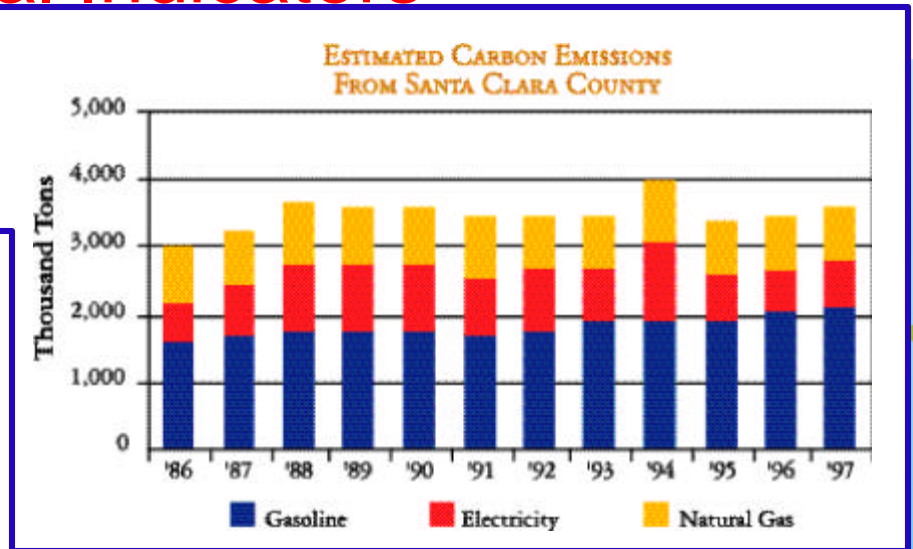


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## Environmental Indicators



Data Sources: California Energy Commission  
and California Department of Transportation

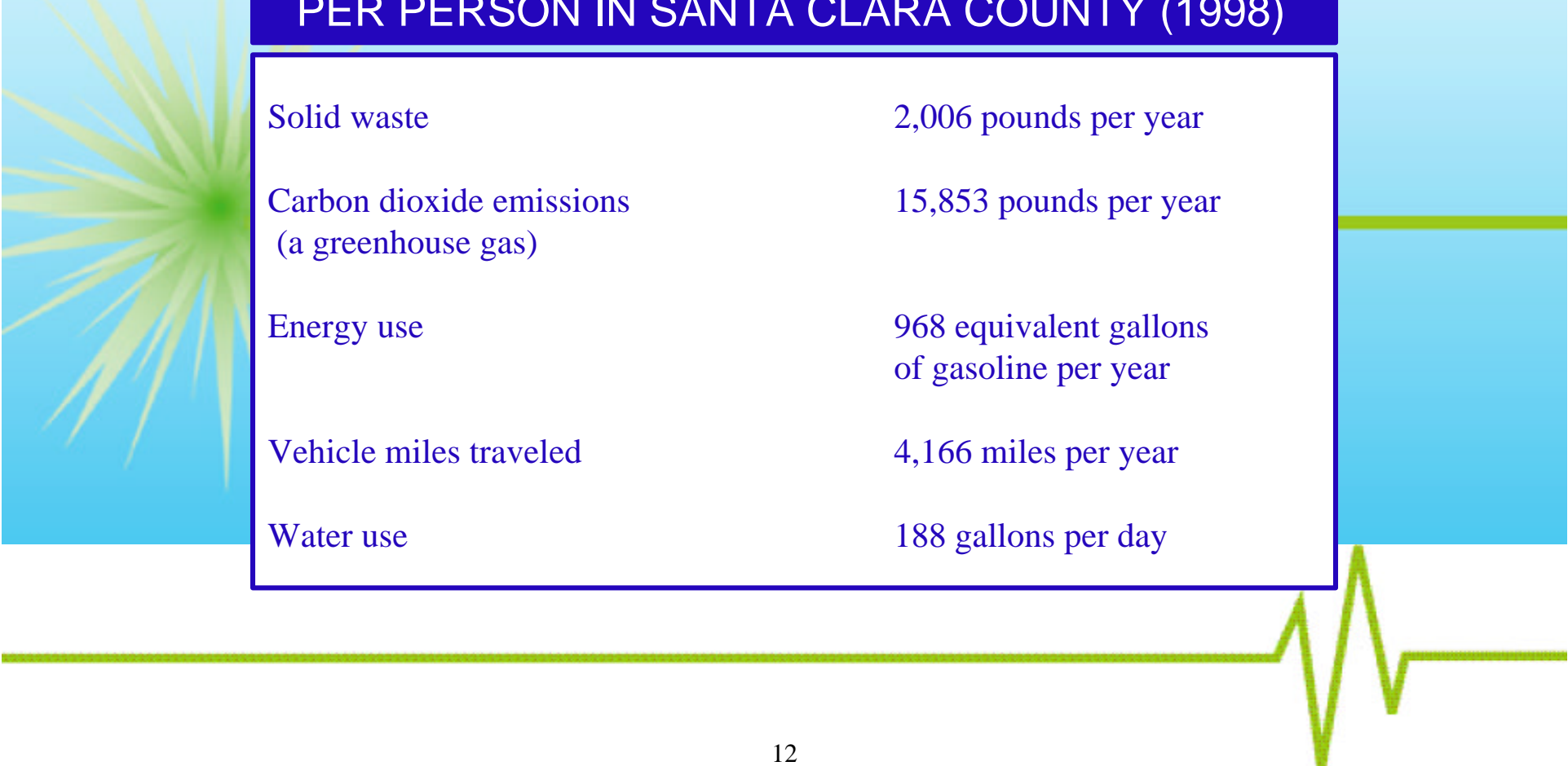


Data & Conversion Factor Sources: California  
Energy Commission, California Department of  
Transportation, U.S. Department of Energy

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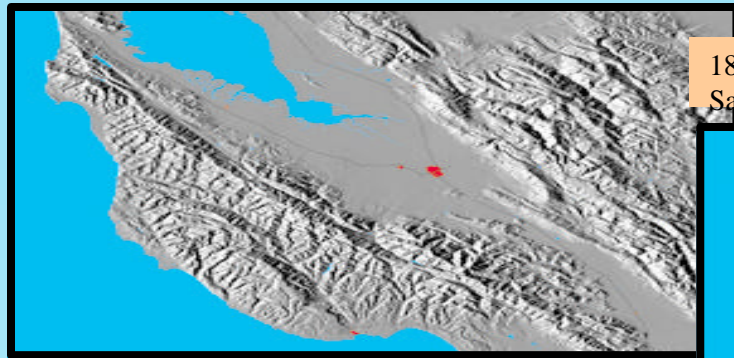
## Environmental Indicators

PER PERSON IN SANTA CLARA COUNTY (1998)

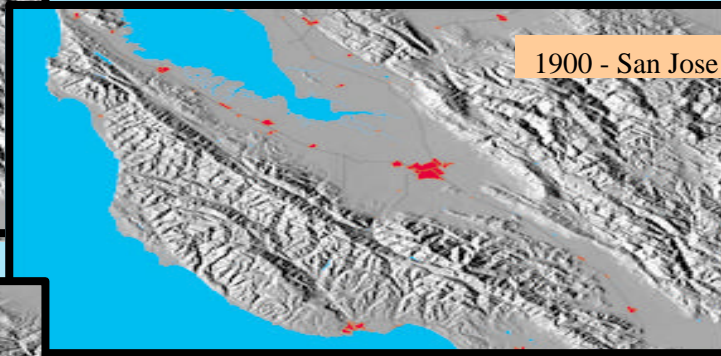


Solid waste	2,006 pounds per year
Carbon dioxide emissions (a greenhouse gas)	15,853 pounds per year
Energy use	968 equivalent gallons of gasoline per year
Vehicle miles traveled	4,166 miles per year
Water use	188 gallons per day

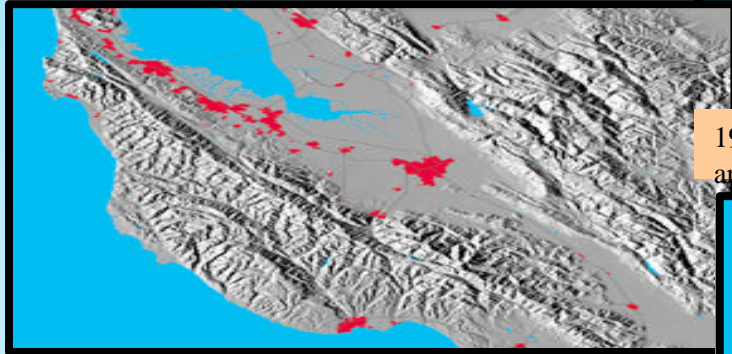
## South Bay Sprawl: 1850 – 1996



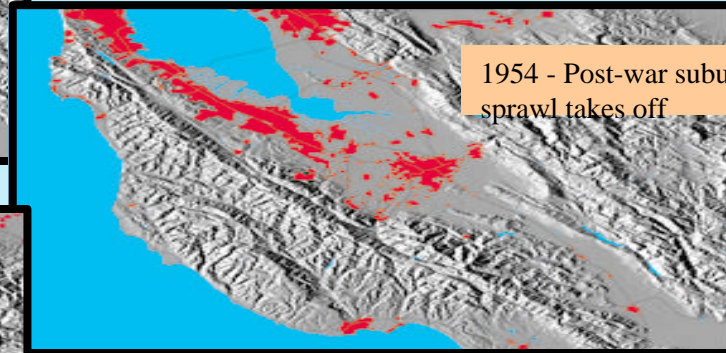
1850 - Small outposts around San Francisco Bay



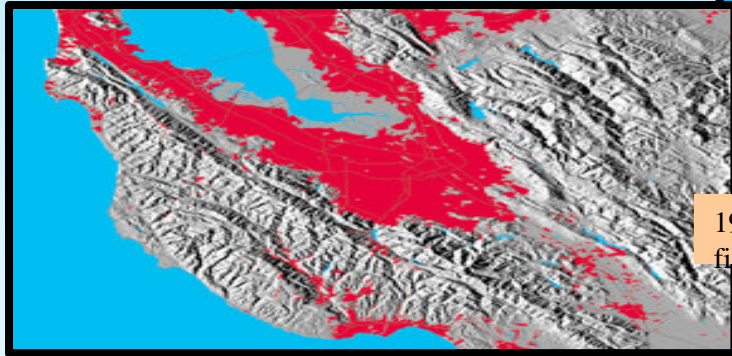
1900 - San Jose emerges



1940 - Suburbs build up around core cities



1954 - Post-war suburban sprawl takes off

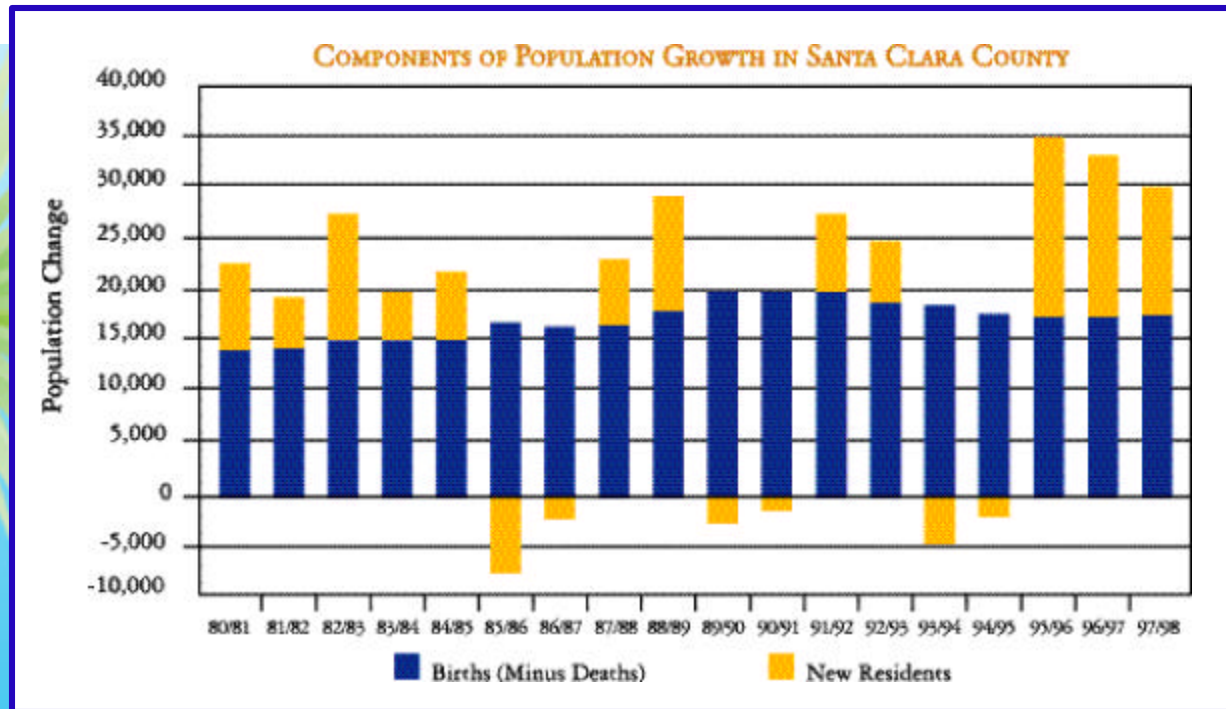


1996 - Explosive growth fills the central flats

Data Source: U.S. Geological Survey

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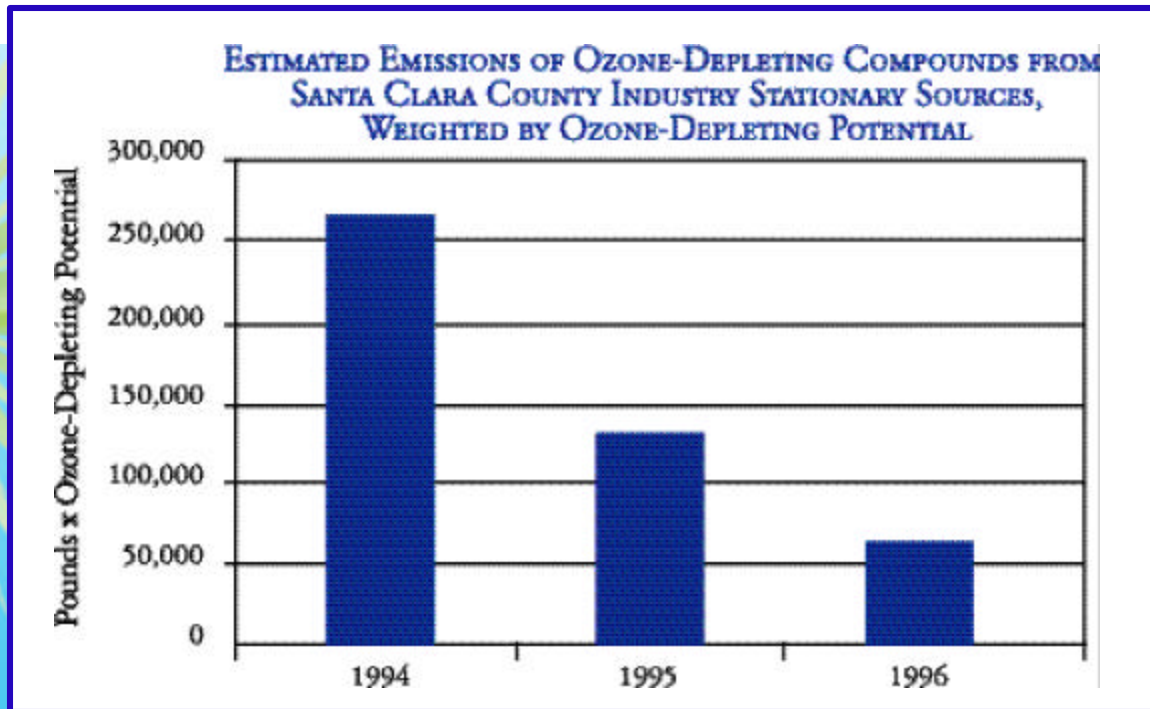


Data Source: California Department of Finance, Demographic Research Unit



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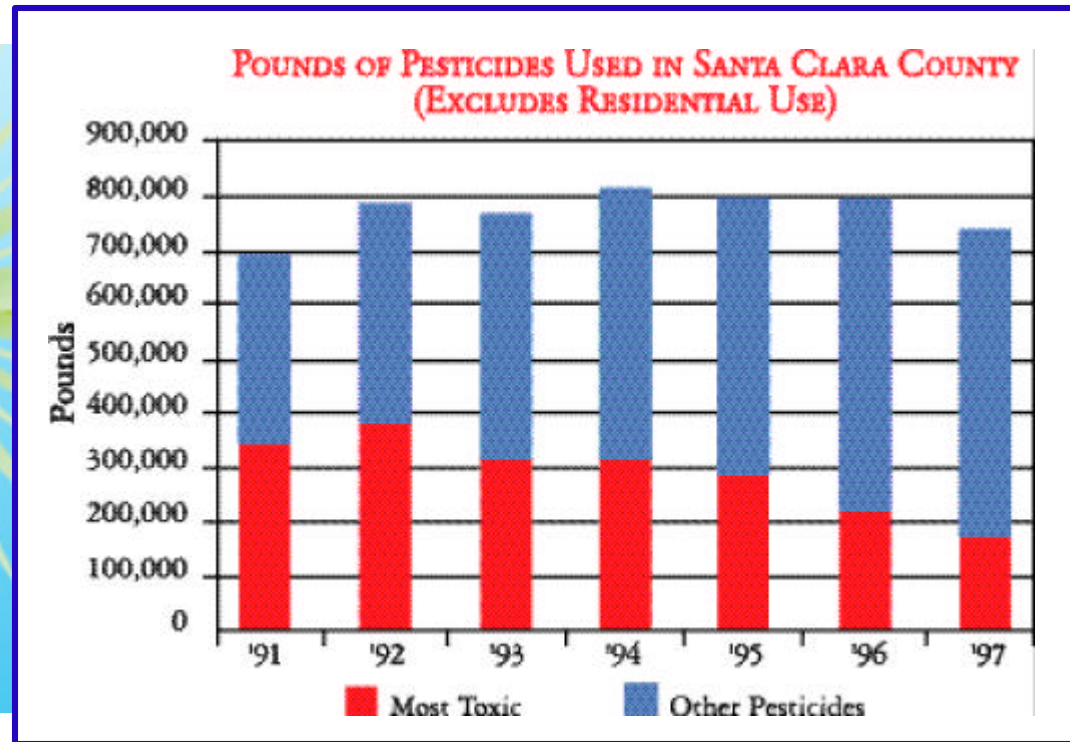


Emission Data Source: Bay Area Air Quality Management District



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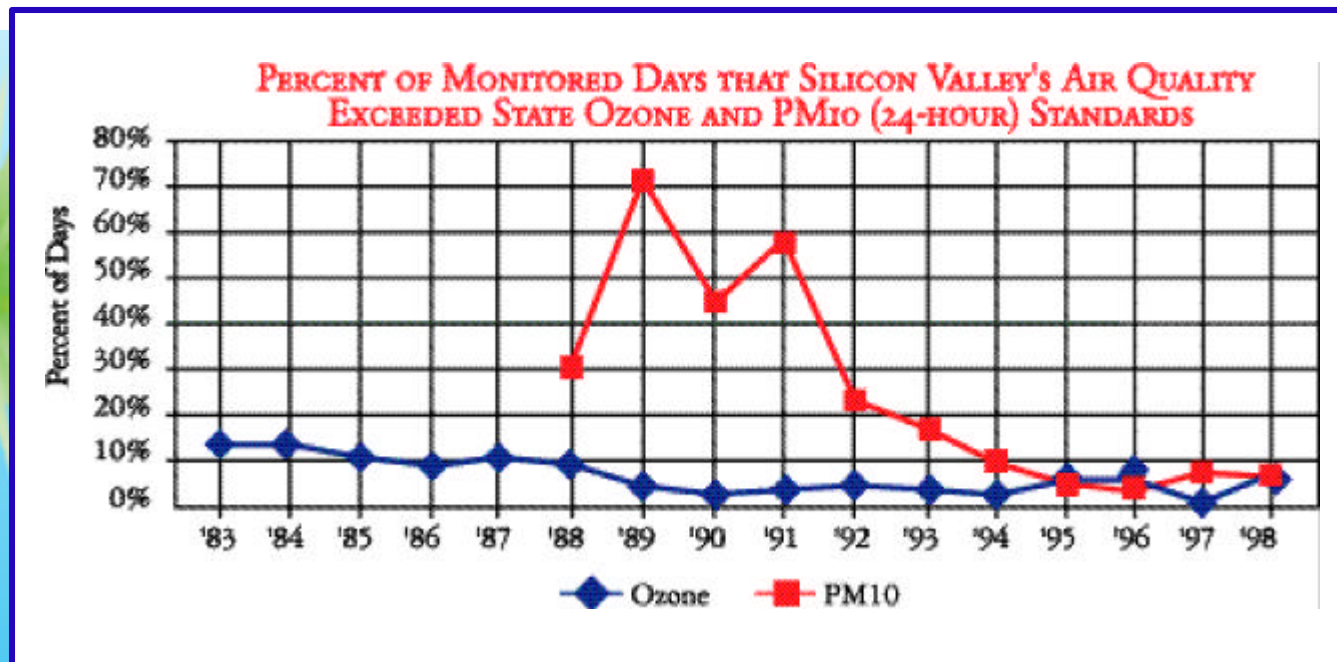
## Environmental Indicators



Data Source: California Department of Pesticide Regulation

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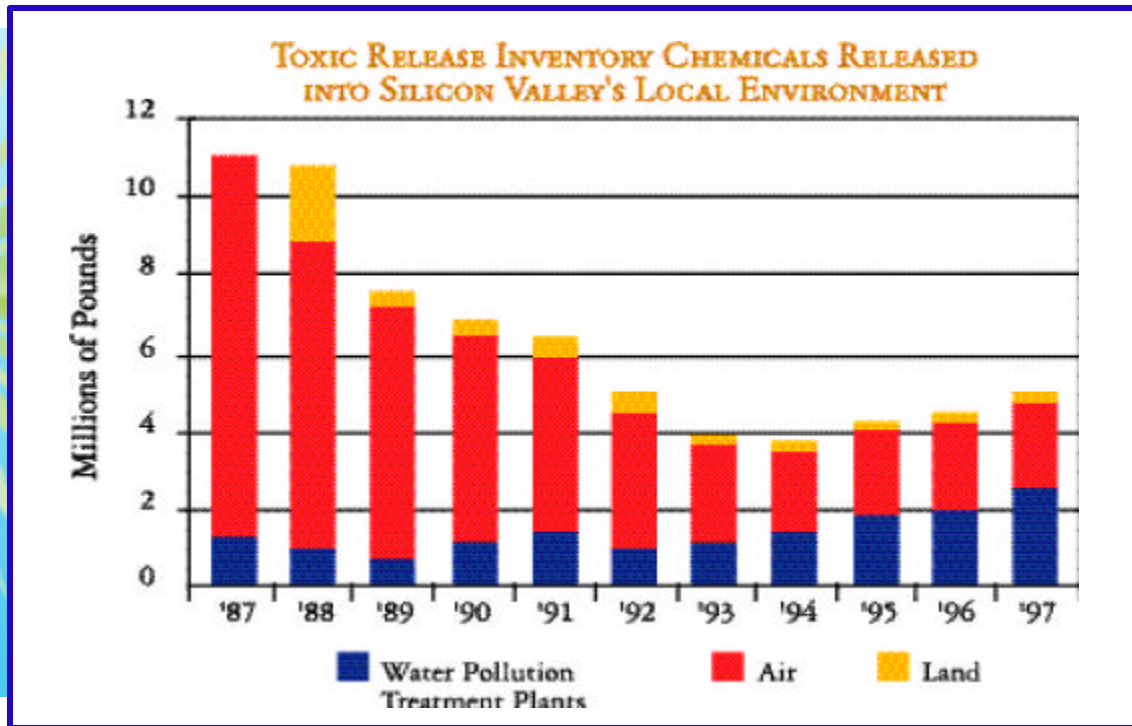
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Data Source: Bay Area Air Quality Management District

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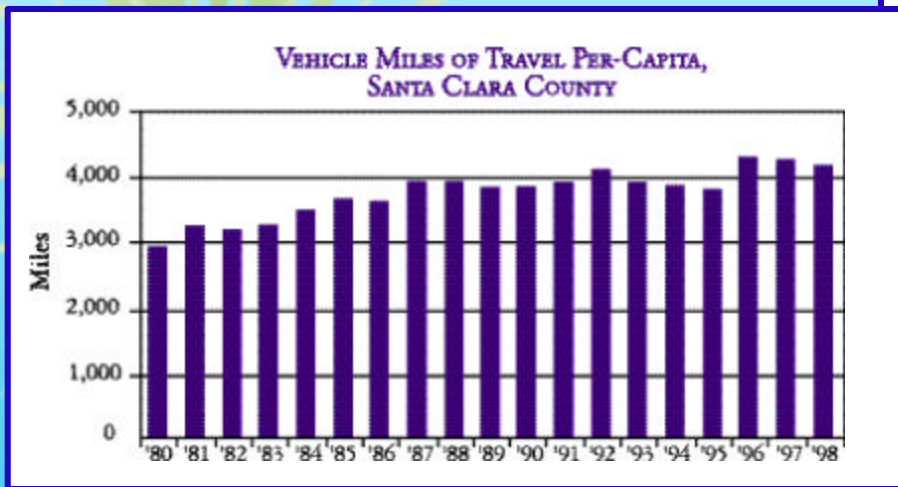
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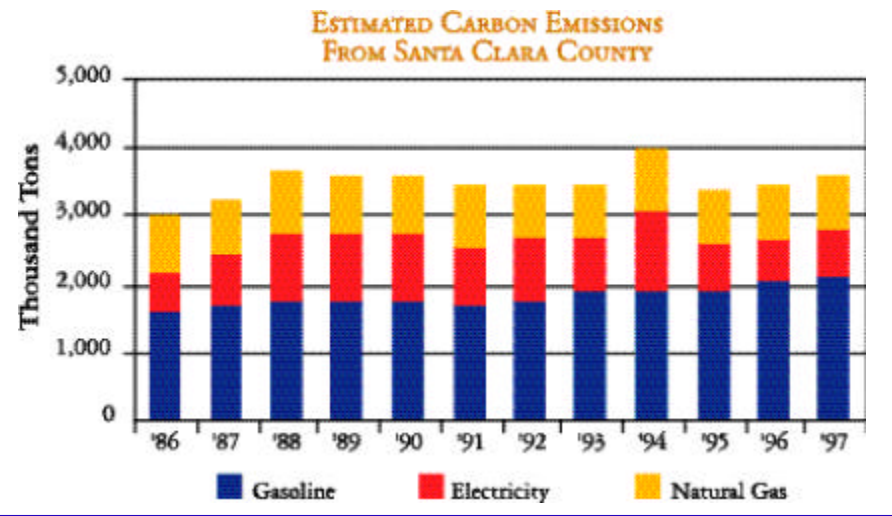
Data Source: U.S. Environmental Protection Agency

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Data Source: California Department of Transportation,  
Transportation System Information Program

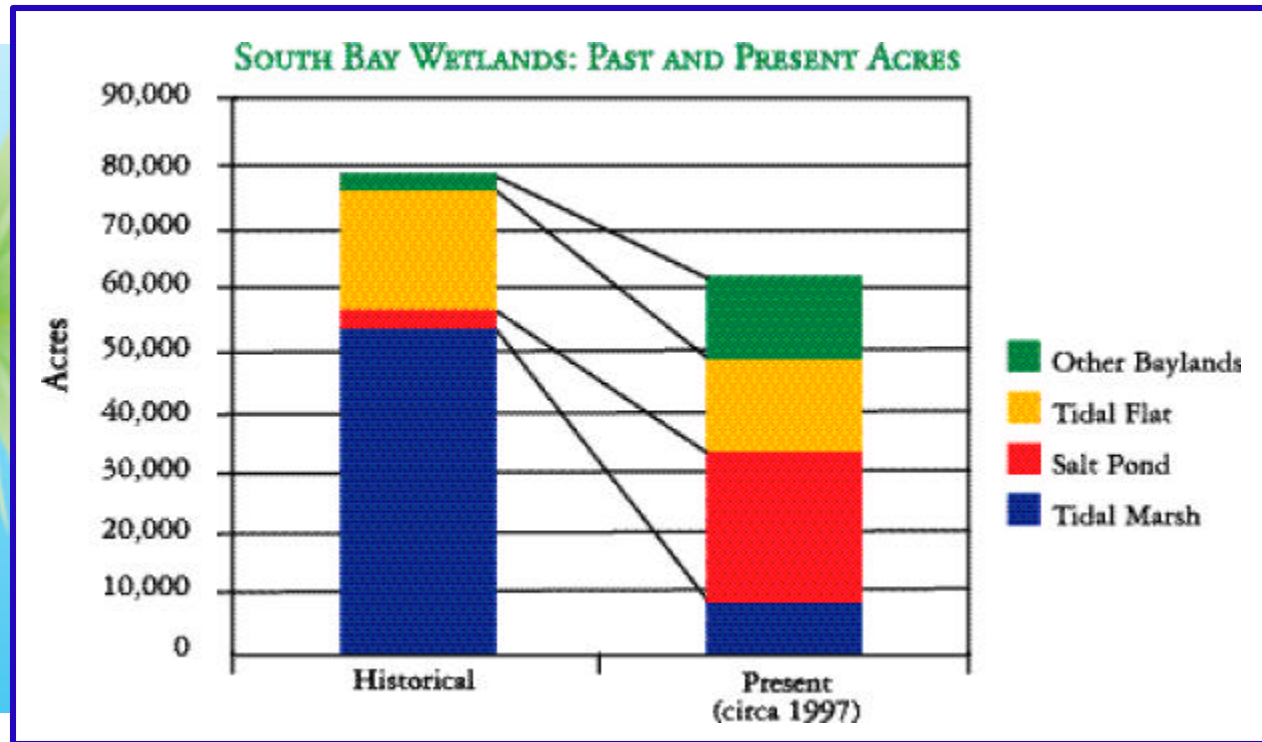


Data & Conversion Factor Sources: California Energy  
Commission, California Department of Transportation,  
U.S. Department of Energy



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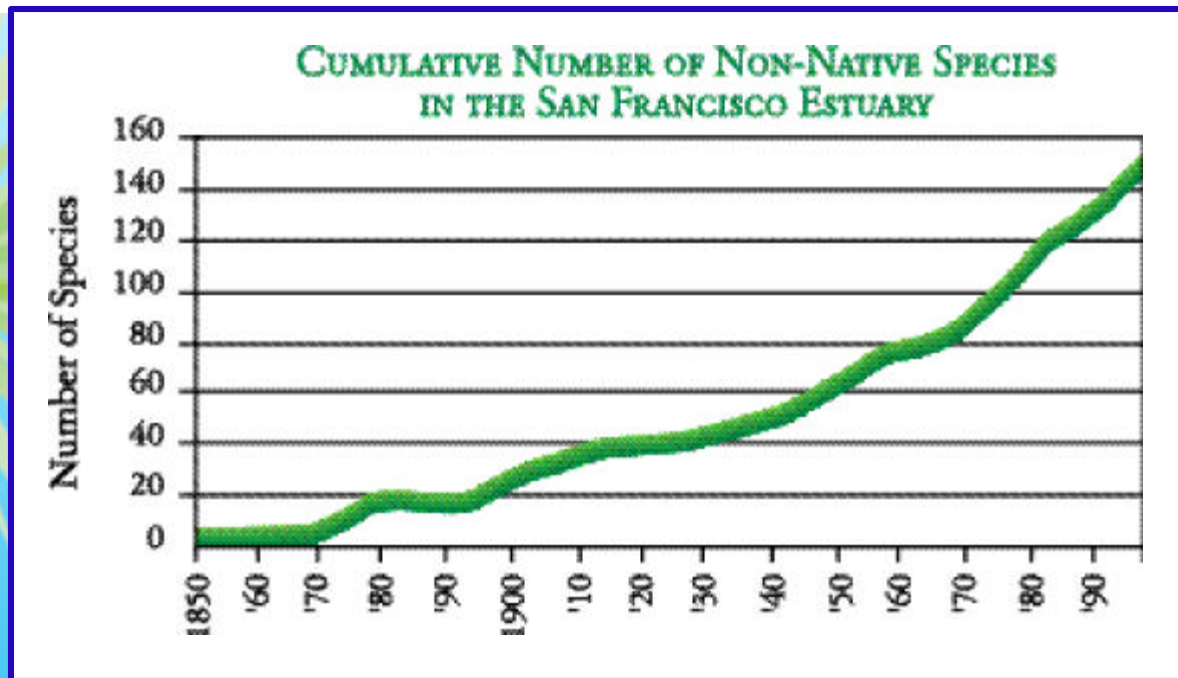


Data Source: San Francisco Bay Area Wetlands Ecosystem Goals Project



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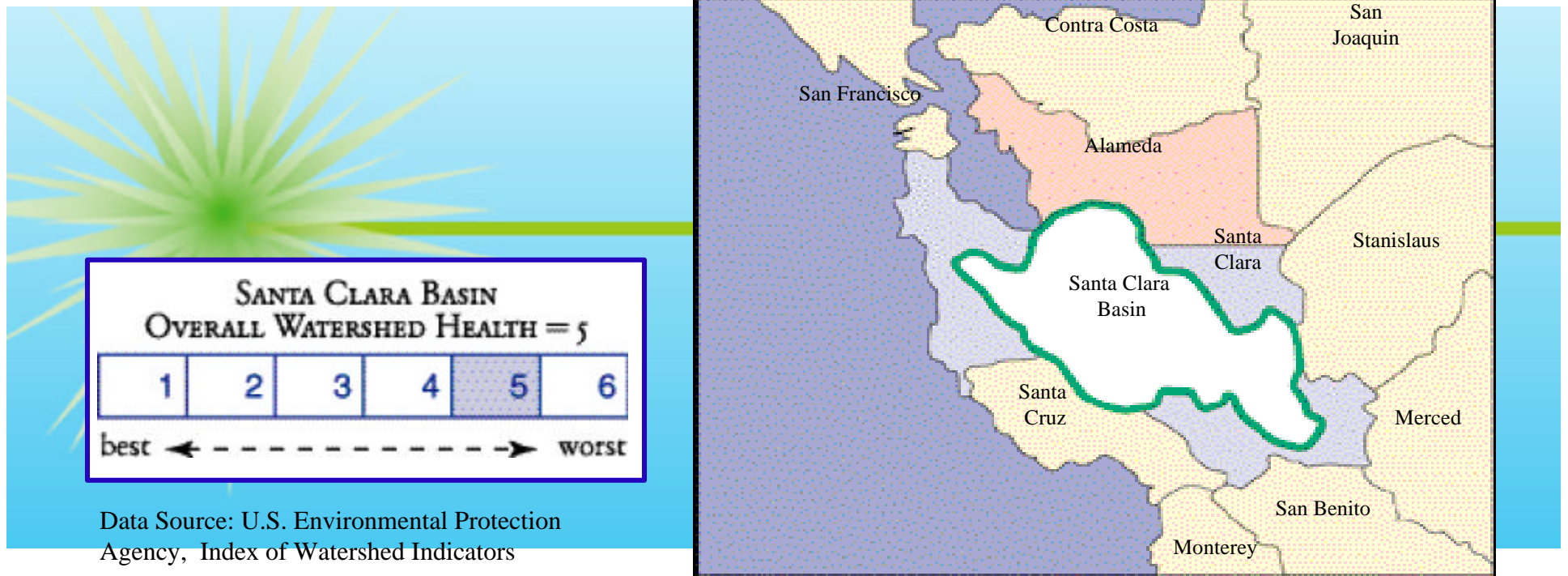
## Environmental Indicators



Data Source: Andrew N. Cohen and James T. Carlton

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Data Source: U.S. Environmental Protection Agency, Index of Watershed Indicators

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Challenges for the California:

- Identifying stakeholders
- Concurrence - criteria, issues, measures, etc.
- Simplicity and complexity

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